

used for full preparation

DERWENT-ACC-NO: 2001-018703

DERWENT-WEEK: 200103

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Fermentative process for preparation of L-methionine
(Met), comprises using a modified Met producing
microorganism, particularly an Escherichia species

PATENT-ASSIGNEE: AJINOMOTO KK[AJIN]

PRIORITY-DATA: 1998JP-0326717 (November 17, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2000139471 A</u>	May 23, 2000	N/A	023	C12N 015/09

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP2000139471A	N/A	1998JP-0326717	November 17, 1998

INT-CL (IPC): C12N001/21, C12N009/04, C12N009/10, C12N009/12,
C12N009/88, C12N015/09, C12P013/12, C12R001:19, C12R001:19,
C12R001:19, C12P013/12, C12N015/09, C12N001/21

ABSTRACTED-PUB-NO: JP2000139471A

BASIC-ABSTRACT:

NOVELTY - Preparing L-methionine (Met) with a modified Met producing
microorganism, is new.

DETAILED DESCRIPTION - A microorganism, particularly belonging to Escherichia
sp., deleted for a repressor of the Met biosynthetic system and capable of
producing Met, particularly with enhanced homoserine transsuccinylase activity,
optionally with attenuated intracellular S-adenosyl methionine synthetase (SAM),
optionally released of concerted inhibition with Met and S-adenosylmethionine,
and especially demanding L-threonine, is used for preparation of Met.

An INDEPENDENT CLAIM is also included for a DNA encoding a homoserine
transsuccinylase having a variation in a sequence of 309 amino acids with
replacement of Arg27 to Cys; Ile296 to Ser; Pro298 to Leu; Arg27 to Cys and
Ile296 to Ser; Ile296 to Ser and Pro298 to Leu; Pro298 to Leu and Arg27 to Cys;
or Arg27 to Cys, Ile296 to Ser and Pro298 to Leu.

USE - The method is used for the preparation of L-methionine (Met).

ADVANTAGE - A variant metA gene releases concerted inhibition with Met and SAM
and can be used for culturing a Met producing microorganism.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: FERMENTATION PROCESS PREPARATION METHIONINE COMPRISE MODIFIED
PRODUCE MICROORGANISM ESCHERICHIA SPECIES

DERWENT-CLASS: B05 D16 E16

CPI-CODES: B04-E02E; B04-F0100E; B04-F10A3E; B10-B02D; D05-A04; D05-A04B;
D05-C01; D05-H12B; E10-B02D1;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code
M423 M710 M905 N135 Q233
Specific Compounds
A00GTN

Chemical Indexing M1 *02*
Fragmentation Code
M423 M710 M905 N135 Q233
Specific Compounds
A00NSN

Chemical Indexing M2 *03*

Fragmentation Code

H1 H100 H181 H5 H598 H9 J0 J011 J1 J171
M210 M211 M271 M281 M313 M321 M332 M343 M349 M381
M391 M416 M620 M720 M800 M904 M905 M910 N131 N132
N133 N135 N161 Q233

Specific Compounds

04098K 04098P 13227K 13227P

Registry Numbers

0187P 0187U

Chemical Indexing M3 *03*

Fragmentation Code

H1 H100 H181 H5 H598 H9 J0 J011 J1 J171
M210 M211 M271 M281 M313 M321 M332 M343 M349 M381
M391 M416 M620 M720 M800 M904 M905 M910 N131 N132
N133 N135 N161 Q233

Specific Compounds

04098K 04098P 13227K 13227P

Registry Numbers

0187P 0187U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0187P; 0187U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-005421